SANTA CRUZ BIOTECHNOLOGY, INC.

PLG-RKT (Q-12): sc-167365



BACKGROUND

Cleavage of the serine proteinase plasminogen to form plasmin is the central event in the dissolution of blood clots by the fibrinolytic system. Within the fibrinolytic cascade, the serine proteinases urokinase-type plasminogen activator (uPA) and tissue-type plasminogen activator (tPA) activate the proenzyme plasmin. PLG-RKT (plasminogen receptor (KT)), also known as AD025, MDS030, C9orf46, PLGRKT or PIg-R(KT), is a 147 amino acid multi-pass membrane plasminogen receptor that colocalizes with uPAR to the cell surface. Expressed in peripheral blood cells, monocytes and in adrenal medulla, PLG-RKT may be involved in plasminogen-dependent regulation of macrophage invasion, chemotactic migration, and recruitment in the inflammatory response.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLGRKT (human) mapping to 9p24.1; Plgrkt (mouse) mapping to 19 C1.

SOURCE

PLG-RKT (Q-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PLG-RKT of human origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-167365 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLG-RKT (Q-12) is recommended for detection of PLG-RKT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PLG-RKT (Q-12) is also recommended for detection of PLG-RKT in additional species, including bovine.

Suitable for use as control antibody for PLG-RKT siRNA (h): sc-92576, PLG-RKT siRNA (m): sc-140341, PLG-RKT shRNA Plasmid (h): sc-92576-SH, PLG-RKT shRNA Plasmid (m): sc-140341-SH, PLG-RKT shRNA (h) Lentiviral Particles: sc-92576-V and PLG-RKT shRNA (m) Lentiviral Particles: sc-140341-V.

Molecular Weight of PLG-RKT: 17 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.